

ABSTRACT

A one-bus multi-media computer system is provided, including a CPU/Sound/Graphic unit, a bus arbitrator, a program and sound and graphic memory for communicating with CPU/Sound/Graphic unit and the bus arbitrator. Only a single bus is required as communications is through the bus arbitrator. The addition of bus-arbitrator can relieve CPU/Sound/Graphic unit from performing bus synchronization and waiting for the slow memory to catch up.